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DEC 16 2002

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## SEQUENCE LISTING

<110> Pastan, Ira H.  
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The Government of the United States of America  
as represented by The Secretary of the  
Department of Health and Human Services

<120> Recombinant Immunotoxin Directed Against the HIV-1  
gp120 Envelope Glycoprotein

<130> 015280-356100US

<140> US 09/673,707

<141> 2001-01-11

<150> WO PCT/US99/12909

<151> 1999-06-08

<150> US 60/088,860

<151> 1998-06-11

<160> 13

<170> PatentIn Ver. 2.0

<210> 1

<211> 251

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:3B3(Fv) amino  
acid sequence

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1				5					10					15	
Ala	Ser	Val	Lys	Val	Ser	Cys	Gln	Ala	Ser	Gly	Tyr	Arg	Phe	Ser	Asn
		20						25					30		
Phe	Thr	Val	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Arg	Phe	Glu	Trp
		35					40					45			
Met	Gly	Trp	Ile	Asn	Pro	Tyr	Asn	Gly	Asn	Lys	Glu	Phe	Ser	Ala	Lys
	50					55					60				
Phe	Gln	Asp	Arg	Val	Thr	Phe	Thr	Ala	Asp	Thr	Ser	Ala	Asn	Thr	Ala
	65				70				75					80	
Tyr	Met	Glu	Leu	Arg	Ser	Leu	Arg	Ser	Ala	Asp	Thr	Ala	Val	Tyr	Tyr
			85						90					95	
Cys	Ala	Arg	Val	Gly	Glu	Trp	Gly	Trp	Asp	Asp	Ser	Pro	Gln	Asp	Asn
			100					105						110	

Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Ile Val Ser Ser  
 115 120 125  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp  
 130 135 140  
 Ile Glu Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu  
 145 150 155 160  
 Arg Ala Thr Phe Ser Cys Arg Ser Ser His Ser Ile Arg Ser Arg Arg  
 165 170 175  
 Val Ala Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Arg Leu Val Ile  
 180 185 190  
 His Gly Val Ser Asn Arg Ala Ser Gly Ile Ser Asp Arg Phe Ser Gly  
 195 200 205  
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Arg Val Glu Pro  
 210 215 220  
 Glu Asp Phe Ala Leu Tyr Tyr Cys Gln Val Tyr Gly Ala Ser Ser Tyr  
 225 230 235 240  
 Thr Phe Gly Gln Gly Thr Lys Leu Glu Arg Lys  
 245 250

<210> 2  
 <211> 753  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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 Sequence:3B3V-H(Gly-4Ser)-3V-L nucleotide sequence

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 <221> CDS  
 <222> (1)..(753)

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 atgcaggttc agctcgagca gtctggggct gaggtgaaga agcctggggc ctcaagtgaag 60  
 gtttcttggtc aggcttctgg atacagattc agtaacttca cgggtccactg ggtgcgccag 120  
 gcccccgagc agaggtttga gtggatggga tggatcaatc cttacaacgg aaacaaagaa 180  
 ttttcagcga agttccagga cagagtcacc ttaccgcgg acacatccgc gaacacagcc 240  
 tacatggagt tgaggagcct cagatctgca gacacggctg tttattattg tgcgagagtg 300  
 ggggagtggg gttgggatga ttctccccag gacaattatt atatggacgt ctggggcaaa 360  
 gggaccacgg tcatcgtctc ctcaggcgga ggcggatcag gtggtggcgg atctggaggt 420  
 ggcggaagcg acatcgagct cacgcagctc ccaggcacc tgtctctgtc tccaggggaa 480  
 agagccacct tctcctgtag gtccagtcac agcattcgca gccgccgcgt agcctggtac 540  
 cagcacaac ctggccaggc tccaaggctg gtcatacatg gtgtttccaa tagggcctct 600  
 ggcattctcag acaggttcag cggcagtggt tctgggacag acttcactct caccatcacc 660  
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<210> 3  
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<223> Description of Artificial Sequence:linker

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Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:C3 connector  
peptide

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Ser Gly Gly Pro Glu Gly Gly Ser  
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<210> 5

<211> 81

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:T128 primer

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aaacatatgc aggttcagct cgagcagtct ggggctgagg tgaagaagcc tggggcctca 60  
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<210> 6

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:T129 primer

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gccccagacg tc 72

<210> 7

<211> 78

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:T-144 primer

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<211> 57  
<212> DNA  
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<223> Description of Artificial Sequence:T131 primer

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<220>  
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endoplasmic retention sequence

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Lys Asp Glu Leu  
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<210> 10  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence:carboxy  
terminal sequence of Pseudomonas exotoxin (PE)  
endoplasmic retention sequence

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<210> 11  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence:native carboxy  
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endoplasmic retention sequence

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<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:linking peptide

<400> 12

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<210> 13

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:carboxy  
terminal sequence of Pseudomonas exotoxin (PE)  
endoplasmic retention sequence

<400> 13

Arg Asp Glu Leu  
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